

AU-1158

M.Sc. (Home Science) (Human Development) Semester-II Examination

123HA53 : HUMAN ANATOMY AND PHYSIOLOGY

Time : Two Hours]

[Maximum Marks : 45

1. Do as directed :

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| 1.1 Anatomy (Definition) | 2 |
| 1.2 Physiology (Definition) | 2 |
| 1.3 Digestive System (Name of organs) | 2 |
| 1.4 Growth and Development (Developmental Stages) | 1 |
| 1.5 Ageing (Physiological Changes) | 2 |

2. Answer in **two to four** sentences :

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| 2.1 Draw the labelled diagram of a cell. | 2 |
| 2.2 What are the types of epithelial tissue ? | 2 |
| 2.3 Write the constituents of blood plasma. | 2 |
| 2.4 Define the term Homeostasis. | 2 |
| 2.5 Write the example of Negative feedback mechanism. | 1 |

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| 3. 3.1 Draw the labelled diagram of Female Reproductive System. Explain the menstrual cycle. | 9 |
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OR

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| 3.2 Write in detail the physiological changes that occur during pregnancy. | 9 |
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| 4. 4.1 Explain the structure and functions of central nervous system. | 9 |
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OR

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| 4.2 Explain the structure and functions of peripheral nervous system. | 9 |
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5. Match the following pairs :

Hormones	Functions
5.1 Growth hormone	(a) Production of ovum in females
5.2 Thyroid stimulating hormone	(b) Contraction of uterine smooth muscles for delivery
5.3 Follicle stimulating hormone	(c) Increases basal metabolic rate and heat production
5.4 Oxytocin	(d) Maintenance of water and electrolyte balance
5.5 Thyroxin	(e) Increases blood glucose level
5.6 Aldosterone	(f) Fight or Flight response
5.7 Glucagon	(g) Inhibition of growth and development of sex organs before puberty
5.8 Melatonin	(h) Growth of bones and muscles
5.9 Adrenalin	(i) Regulate growth and activity of thyroid gland

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